



FINGER DETAIL

** 25 mm MIN. LAP OF FINGERS AT -30° F.

PART PLAN OF FINGER PLATE AT BRUSH CURB

NO SKEW

1. FINGER PLATE, SIZE TO BE DETERMINED BY DESIGN.
2. WEB PLATE, SIZE TO BE DETERMINED BY DESIGN.
3. FLANGE PLATE, SIZE TO BE DETERMINED BY DESIGN.
4. BEVELED SHIM PLATE 10 mm THICK, 24 mm ϕ HOLES FOR NO.6.
5. 19 mm LAMINATED SHIM WITH SLOTTED OPENINGS
6. 19 mm ϕ ERECTION BOLTS, DRILL HOLES IN SHELF PLATE IN THE FIELD.
7. ANCHOR BAR 16 mm ϕ AT 300 mm CENTERS, BEND AS SHOWN.
8. STIFFENER BAR 10 mm THICK, 6 mm FILLET WELD ALL AROUND.
PLACE AT $\frac{C}{2}$ OF GIRDER AND AT +600 mm CENTERS BETWEEN GIRDERS.
9. 21mm VENT HOLES AT 900 mm CENTERS.
10. 19 mm ϕ ADJUSTING BOLT AT APPROX. 1200 mm CENTERS WITH TWO
65 mm ϕ X 10 mm PLATE WASHERS, ONE ON EACH SIDE OF FINGER PLATE.
11. MUD PLATE 6 mm THICK
12. 10 mm PLATE, BEND AS SHOWN.
13. 10 mm PLATE BEND AS SHOWN.
14. 10 mm PLATE BEND AS SHOWN.
15. 16 mm ϕ STUDS X 160 mm LONG, WELD TO PLATES NO.13 AND NO.14.
16. 19 mm ϕ BOLT FOR SHIPPING, TACK WELD NUT TO BOTTOM OF PLATE
NO.1.
17. 75 mm ϕ X 75 mm ϕ X 6 mm + 1500 mm SPACING, SLOTTED HOLE 21mm X
60 mm IN ONE END OF ANGLE AS SHOWN, FOR BOLT NO.16.
18. CLOSING PLATE 10 mm CUT AS SHOWN, SEE WELD DETAIL
19. 10 mm PLATE, BEND AS SHOWN.
20. 10 mm PLATE, BEND AS SHOWN.
21. 10 mm PLATE, BEND AS SHOWN.
22. 10 mm PLATE, WELD ALL AROUND, 6 mm FILLET WELD TO PLATES NO.
18, 19, & 20.
23. 16 mm ϕ STUDS X 160 mm LONG, BEND AFTER WELD.
24. 19 mm ϕ BOLT WITH SQ. NUT, GREASE FOR EASY REMOVAL, 21mm X 45 mm
SLOTTED HOLE IN PL. NO.19, LONG DIMENSION OF HOLE PARALLEL TO $\frac{C}{2}$ OF
ROADWAY, TACK WELD NUT TO PLATE NO.20 + 600 mm SPA.
25. 16 mm ϕ STUDS X 160 mm LONG, WELD TO PLATE NO.20.
26. FLANGE PLATE, SAME THICKNESS AS PLATE NO.3 AND SAME WIDTH AS
SHELF PLATE, SHOP BUTT WELD TO PLATE NO.3.
27. 10 mm CLOSING PLATE, WELD TO PLATES NO.1 AND NO.2.

REMOVE ANGLE NO.17 AND ADJUSTING BOLT NO.10 AFTER VERTICAL AND HORIZONTAL ALIGNMENT IS SECURE IN FIELD. FILL HOLES WITH HOT POURED JOINT SEALER.

IN SOME CASES THE GIRDER FLANGES AND WEB PLATES DO NOT HAVE TO BE CUT TO ACCOMMODATE THE FINGER JOINT SECTION, THE SLAB DEPTH MAY BE UTILIZED EFFECTIVELY.

ALL DIMENSIONS ARE IN MILLIMETERS.

FINGER TYPE EXPANSION JOINT - PLATE GIRDER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DEVELOPMENT SECTION	
APPROVED: _____	DATE: _____ 1/99